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Date:

February 1, 2007

Art Unit:

2863

Serial

Number: 10/022211

From: Diane Jackson

Location: EIC 2800

JEF: 4B68

Phone: 571-272-2540

diane.jackson@uspto.gov

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Patent Search 6141627 2/1/2007

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Source: Combined Source Set 10 i - Utility, Design and Plant Patents
Terms: patno=6141627 (Edit Search | Suggest Terms for My Search)

066532 (09) 6141627 October 31, 2000

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6141627

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October 31, 2000

Method and apparatus for controlling power consumption in a tilt correcting coil

REISSUE: December 20, 2001 - Reissue Application filed Ex. Gp.: 2854; Re. S.N. 10/022,211 (O.G. April

2, 2002)

INVENTOR: Yoon, Yeo Chang - Seoul, Korea, South (KR)

APPL-NO: 066532 (09)

FILED-DATE: April 27, 1998

GRANTED-DATE: October 31, 2000

PRIORITY: April 26, 1997 - 9715728, Korea, South (KR)

ASSIGNEE-PRE-ISSUE: July 20, 1998 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., SAMSUNG ELECTORNICS CO., LTD., A CORPORATION OF KOREA 416, MAETAN-DONG, PALDAL-KU, SUWONKYUNGKI-DO, (1), Reel and Frame Number: 009323/0219

ASSIGNEE-AT-ISSUE: SamSung Electronics Co., Ltd., Kyungki-do, Korea, South (KR), Foreign company or corporation (03)

LEGAL-REP: Bushnell, Robert E.

PUB-TYPE: October 31, 2000 - Utility Patent having no previously published pre-grant publication (A)

PUB-COUNTRY: United States (US)

US-MAIN-CL: 702#89

US-ADDL-CL: 315#8, 315#368.21, 315#371

CL: 702, 315

SEARCH-FLD: 702#89, 713#323, 713#322, 713#324, 315#8, 315#364, 315#368.21, 315#370,

315#371

IPC-MAIN-CL: [7] H01J 029#56

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1/1 FAMPAT - @QUESTEL-ORBIT - image

FAN - 20063140163343

PN - KR100237850 B1 20000115 [KR100237850]

STG: Examined pat. App. (2nd pub.) B5

AP: 1997KR-0015728 19970426

🔁 US6141627 A 20001031 [US6141627]

STG: United States patent

AP: 1998US-0066532 19980427

TI - Method and apparatus for controlling power consumption in a tilt correcting coil

PA - SAMSUNG ELECTRONICS CO LTD

PA0 - SamSung Electronics Company, Ltd., Kyungki-do [KR]

IN - YOON YEO CHANG

PR - 1997KR-0015728 19970426

IC - G06F-001/32

H01J-029/56

H04N-003/22

H04N-005/63

ICAA - G06F-001/32 [2006-01 A - I R M EP]; H04N-003/22 [2006-01 A - I R M EP]

ICCA - G06F-001/32 [2006 C - I R M EP]; H04N-003/22 [2006 C - I R M EP]

EC - G06F-001/32P6

H04N-003/22

PCL - ORIGINAL (O): 702089000; CROSS-REFERENCE (X): 315008000 315368210

315371000

CT - (US6141627)

US5481732; US5603040; US5714843; US5938770

AB - (US6141627)

A method for controlling the power consumption in a tilt correcting coil is disclosed. The power consumption is corrected in the tilt correcting coil for correcting the tilt of the images of the cathode ray tube. If a microcomputer judges that the mode is the on-state mode, then the microcomputer outputs a tilt correcting PWM signal in accordance with the user's inputting. Then the output tilt correcting PWM signal is converted into a dc voltage, and the level is adjusted. Then the signal is supplied to the tilt correcting coil, so that the tilt of the image on the screen would be corrected. In the cases of the standby mode, the suspend mode and/or the power-off mode, the microcomputer outputs a signal which has a function of minimizing the power consumption of the tilt correcting coil. Therefore, the tilt of the image of the screen is corrected in the normal manner. On the other hand, in the cases of the standby mode, the suspend mode and/or the power-off mode, the tilt correcting coil does not consume any power, thereby satisfying the power consumption definition of the power-off mode.

OBJ - (US6141627)

A method for controlling the power consumption in a tilt correcting coil is disclosed. The present invention relates to a monitor which includes a cathode ray tube as an image displaying device, and is a peripheral equipment of a computer system, and more particularly, the present invention relates to a method and apparatus for controlling the power consumption in a tilt correcting coil for correcting the tilt of the images of the cathode ray tube, in which the power consumption is corrected in the tilt correcting coil.

The present invention is intended to overcome the above described disadvantages of the conventional technique.

Therefore it is an object of the present invention to provide a method for controlling the

power consumption in a tilt correcting coil, in which the power consumption in the tilt correcting coil is eliminated when the DPMS mode is one of the standby mode, the suspend mode, and the power-off mode.

It is another object of the present invention to provide an apparatus for controlling the power consumption in a tilt correcting coil of a monitor operable in a DPMS mode, wherein the DPMS mode is one of a standby mode, suspend mode, and power-off mode, by preventing a tilt correcting pulse width modulated (PWM) signal from being provided to the tilt correcting coil.

In achieving the above objects, the present invention is characterized in that a microcomputer determines the current DPMS mode in accordance with the presence or absence of horizontal and vertical synchronizing signals input from the computer system.

ICLM - (US6141627)

1. A method for controlling power consumption in a tilt correcting coil of a monitor connected to a computer, said method comprising the steps of: determining whether synchronization signals are received by said monitor from said

determining whether synchronization signals are received by said monitor from said computer;

operating said monitor in an on-state mode of a power supply mode of a display power management system (DPMS) when it is determined that said synchronization signals are received by said monitor;

providing a tilt correcting pulse width modulated signal to said tilt correcting coil when operating said monitor in said on-state mode;

operating said monitor in one of a suspend mode, a standby mode and a power-off mode of said power supply mode when it is determined that said synchronization signals are not received by said monitor; and

preventing said tilt correcting pulse width modulated signal from being provided to said tilt correcting coil when operating said monitor in said one of said suspend, standby and power-off modes.

4. A method for controlling power consumption in a tilt correcting coil of a monitor connected to a computer, said monitor being operable in an on-state mode, a suspend mode and a power-off mode of a power supply mode of a display power management system (DPMS), said method comprising the steps of:

determining whether horizontal and vertical synchronization signals are received by said monitor from said computer;

operating said monitor in said on-state mode when it is determined that both of said horizontal and vertical synchronization signals are received by said monitor; providing a tilt correcting pulse width modulated signal to said tilt correcting coil when operating said monitor in said on-state mode;

operating said monitor in one of said suspend and power-off modes when it is determined that at least one of said horizontal and vertical synchronization signals is not received by said monitor; and

preventing said tilt correcting pulse width modulated signal from being provided to said tilt correcting coil when operating said monitor in said one of said suspend and power-off modes.

6. An apparatus for controlling power consumption in a tilt correcting coil of a monitor connected to a computer, said monitor being operable in any one of an on-state mode, a suspend mode, a standby mode and a power-off mode of a power supply mode of a display power management system (DPMS), said apparatus comprising:

a microcomputer in said monitor for receiving horizontal and vertical synchronizing signals output from said computer;

an integrator for receiving and converting a tilt correcting pulse width modulated signal output from said microcomputer into a direct current voltage signal;

a tilt correcting signal output circuit for outputting an amplified voltage signal by amplifying the direct current voltage signal output from said integrator, said amplified voltage signal being applied to said tilt correcting coil.

1/1 LGST - ©EPO

PN - 🔁 US6141627 A 20001031 [US6141627]

AP - US6653298 19980427 [1998US-0066532]

ACT - 20020402 US/RF-A

REISSUE APPLICATION FILED EFFECTIVE DATE: 20011220

UP - 2003-22

1/1 CRXX - ©CLAIMS/RRX

AN - 3410586

PN - 🔁 6,141,627 A 20001031 [US6141627]

PA - Samsung Electronics Co Ltd KR

PT - E (Electrical)

ACT - 20011220 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20020402

REISSUE REQUEST NUMBER: 10/022211

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2854

Reissue Patent Number:

UP - 2002-14

UACT - 2002-04-02

Search statement 2

Back

Extended Family Search Results

US6141627/PN Results: 2

PATENT FAMILY

#	Patent No.	Kind	Date	Applic.No.	Date
<u>1)</u>	KR100237850	B1	20000115	1997KR-0015728	19970426
2)	US6141627	Α	20001031	1998US-0066532	19980427

Priority:

1997KR-0015728 19970426

Ø

1/2 PLUSPAT - ©QUESTEL-ORBIT

PN KR100237850 B1 20000115 [KR100237850]

STG (B1) Examined pat. App. (2nd pub.) B5

TI (B1) POWER CONSUMPTION MANAGING METHOD

PA (B1) SAMSUNG ELECTRONICS CO LTD (KR)

IN (B1) YOON YEO CHANG (KR)

IC (B1) H04N-005/63

AP KR19970015728 19970426 [1997KR-0015728]

PR . KR19970015728 19970426 [1997KR-0015728]

G06F-001/32 [2006-01 A - I R M EP]; H04N-003/22 [2006-01 A - I R M EP] ICAA -

G06F-001/32 [2006 C - I R M EP]; H04N-003/22 [2006 C - I R M EP] ICCA - .

G06F-001/32P6 EC

H04N-003/22

UP 2006-47

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2/2 PLUSPAT - @QUESTEL-ORBIT - image

🔼 US6141627 A 20001031 [US6141627] PN

STG (A) United States patent

ΤI (A) Method and apparatus for controlling power consumption in a tilt correcting coil

(A) SAMSUNG ELECTRONICS CO LTD (KR) PA

SamSung Electronics Company, Ltd., Kyungki-do [KR] PA0

IN (A) YOON YEO CHANG (KR)

IC (A) H01J-029/56

AP US6653298 19980427 [1998US-0066532]

PR KR19970015728 19970426 [1997KR-0015728]

G06F-001/32 [2006-01 A - I R M EP]; H04N-003/22 [2006-01 A - I R M EP] ICAA -

ICCA -G06F-001/32 [2006 C - I R M EP]; H04N-003/22 [2006 C - I R M EP]

EC G06F-001/32P6

H04N-003/22

PCL ORIGINAL (O): 702089000; CROSS-REFERENCE (X): 315008000 315368210 315371000

DT - Basic

UP - 2000-44

1/1 LEGALI-©EPO

PN - US6141627 A 20001031 [US6141627]

AP - US6653298 19980427 [1998US-0066532]

ACT - 20020402 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20011220

UP - 2003-22

Search statement 2

Top Back

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⊕ ☐ TITLE 3. THE PRESIDENT	
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⊕ ☐ TITLE 5. GOVERNMENT ORGANIZATION AND EMPLOYEES	
⊕ ☐ TITLE 6. DOMESTIC SECURITY	
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TITLE 8. ALIENS AND NATIONALITY	
① TITLE 9. ARBITRATION	
⊕ ☐ TITLE 10. ARMED FORCES ⊕ ☐ TITLE 11. BANKRUPTCY	
⊕ ☐ TITLE 11. BANKS AND BANKING	
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⊕ ☐ TITLE 14. COAST GUARD	
⊕ ☐ TITLE 15. COMMERCE AND TRADE	
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⊕ ☐ TITLE 20. EDUCATION ⊕ ☐ TITLE 21. FOOD AND DRUGS	
⊕ ☐ TITLE 21. FOOD AND DROGS ⊕ ☐ TITLE 22. FOREIGN RELATIONS AND INTERCOURSE	
TITLE 23. HIGHWAYS	
TITLE 24. HOSPITALS AND ASYLUMS	
⊕ ☐ TITLE 25. INDIANS	
⊕ ☐ TITLE 26. INTERNAL REVENUE CODE	
⊕ ☐ TITLE 27. INTOXICATING LIQUORS	
⊕ ☐ TITLE 28. JUDICIARY AND JUDICIAL PROCEDURE	
TITLE 29. LABOR	
⊕ ☐ TITLE 30. MINERAL LANDS AND MINING⊕ ☐ TITLE 31. MONEY AND FINANCE	
⊕ ☐ TITLE 31. MONEY AND FINANCE ⊕ ☐ TITLE 32. NATIONAL GUARD	•
⊕ ☐ TITLE 32. NAVIGATION AND NAVIGABLE WATERS	
⊕ ☐ TITLE 34. [NAVY]	
⊕ ☐ TITLE 35. PATENTS	
TITLE 36. PATRIOTIC AND NATIONAL OBSERVANCES, CEREMONIES, AND ORGANIZATIONS	
⊕ ☐ TITLE 37. PAY AND ALLOWANCES OF THE UNIFORMED SERVICES	
① TITLE 38. VETERANS' BENEFITS	
TITLE 39. POSTAL SERVICE	
⊕ ☐ TITLE 40. PUBLIC BUILDINGS, PROPERTY, AND WORKS⊕ ☐ TITLE 41. PUBLIC CONTRACTS	
⊕ ☐ TITLE 41. PUBLIC CONTRACTS ⊕ ☐ TITLE 42. THE PUBLIC HEALTH AND WELFARE	
⊕ ☐ TITLE 43. PUBLIC LANDS	
⊕ ☐ TITLE 44. PUBLIC PRINTING AND DOCUMENTS	
⊕ ☐ TITLE 45. RAILROADS	
⊕ ☐ TITLE 46. SHIPPING	
OF TITLE 47 TELECHARUS TELEBUONES AND DARIOTELEGRARUS	

⊕ .□	TITLE 48.	TERRITORIES	AND INSUL	LAR POSSESSIONS
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⊕ ☐ TITLE 49. TRANSPORTATION

TITLE 50. WAR AND NATIONAL DEFENSE

1 - 50 of 50

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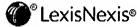
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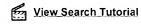
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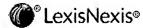
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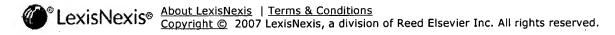
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URGENT: Putin urges rich countries to open to markets developing nations RIA Novosti July 14, 2006

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July 14, 2006

ACC-NO: 6141627

LENGTH: 59 words

HEADLINE: URGENT: Putin urges rich countries to open to markets developing nations

BODY:

ST. PETERSBURG, July 14 (RIA Novosti) - Russia's President Vladimir Putin called on rich nations Friday to open their markets to products from developing countries.

"They should lift barriers that prevent traditional products of developing countries from entering their markets, and cancel heavy state subsidies on their exports," Putin told a G8 youth forum.

LOAD-DATE: July 14, 2006

Source: Combined Source Set 1 ii - News, All (English, Full Text)

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